

SN#09663864

ABSTRACT OF THE INVENTION

An electrical coupler comprises an inner connector having upper and lower ends, an insulative outer connector element circumscribing the inner connector, and a thermally conductive flange disposed over the upper end of the inner connector and the outer connector for conducting heat from the electrical conductor. The electrical conductor may be utilized in a substrate support for semiconductor wafer processing. The substrate support comprises a chuck body having an electrode embedded therein, and an upper male connector coupled to the electrode and protruding from said chuck body. A cooling plate having the electrical coupler is positioned proximate to the chuck body. The upper male connector is inserted in the electrical coupler, and a power source coupled to the lower portion of the electrical coupler chucks and biases a wafer to an upper surface of said chuck. The thermally conductive flange conducts and transfers heat generated from the upper male connector and electrical coupler to the cooling plate.

20

005160-19829950